					ST DEPARTMENT DIVISION O		URAL RES				AMENI	FC DED REPOR	RM 3	
		AF	PLICATION FO	R PERM	IIT TO DRILL					1. WELL NAME and N	JMBER NBU 922-	-33M4CS		
2. TYPE C	F WORK	DRILL NEW WELL	REENTER	P&A WELL	. DEEPEN	WELL ()			3. FIELD OR WILDCA	r NATURAL	BUTTES		
4. TYPE O	F WELL				hane Well: NO		•			5. UNIT or COMMUNI	TIZATION NATURAL		ENT NAM	1E
6. NAME	OF OPERATOR									7. OPERATOR PHONE				
8. ADDRE	SS OF OPERAT		KERR-MCGEE OIL							9. OPERATOR E-MAII				
10. MINER	RAL LEASE NUM	BER	P.O. Box 173779		CO, 80217 NERAL OWNERS	SHIP				julie.ja 12. SURFACE OWNER		anadarko	.com	
(FEDERA	L, INDIAN, OR S	TATE) JTU-01191-A		FED	DERAL IND	DIAN 🔵	STATE () FEE(FEDERAL INI	DIAN 🔵	STATE	F	EE 🔵
13. NAME	OF SURFACE	OWNER (if box 12	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	! = 'fee')	
	N ALLOTTEE O	R TRIBE NAME			TEND TO COMM		RODUCTION	FROM		19. SLANT				
(if box 12	2 = 'INDIAN')				error		ing Applicati	on) NO 🤅)	VERTICAL DIF	RECTION	AL 📵 H	HORIZON	TAL 🔵
20. LOC	ATION OF WELL	-		FOOTAGE	ES	QTR	R-QTR	SECT	ION	TOWNSHIP	R/	ANGE	МЕ	ERIDIAN
LOCATIO	ON AT SURFACE		819	FSL 262	2 FWL	SW	wsw	33		9.0 S	22	2.0 E		S
Top of U	ppermost Prod	lucing Zone	65	FSL 824	FWL	SW	wsw	33		9.0 S	22	2.0 E		S
At Total	Depth		65	FSL 824	FWL	SW	WSW	33		9.0 S	22	2.0 E		S
21. COUN	ITY	UINTAH		22. DI	STANCE TO NEA	REST LEA 824		eet)		23. NUMBER OF ACRES IN DRILLING UNIT 1363				
					STANCE TO NEA ied For Drilling		leted)	POOL		26. PROPOSED DEPT		TVD: 101	18	
27. ELEV	ATION - GROUN	ID LEVEL		28. BC	OND NUMBER					29. SOURCE OF DRIL WATER RIGHTS APPR			DDI ICAB	1.5
		5015				WYB00	00291			WATER RIGHTS AFT R	43-8		III LIOAD	
Ctuina	Hala Siza	Cooling Sino	Langth	Walaht	Hole, Casing									Mainht
String Surf	Hole Size	Casing Size 8.625	0 - 2330	Weight 28.0	J-55 LT		Max Mu			Cement Type V		Sacks 180	Yield 1.15	Weight 15.8
									Class G			270	1.15	15.8
Prod	7.875	4.5	0 - 10263	11.6	HCP-110	LT&C	12	.5	Pre	mium Lite High Stre	ngth	310	3.38	12.0
										50/50 Poz		1510	1.31	14.3
					A	TTACHN	MENTS							
	VEF	RIFY THE FOLLO	WING ARE AT	ACHED	IN ACCORDAN	ICE WITH	H THE UTA	AH OIL AN	ID GAS	CONSERVATION G	ENERA	L RULES		
✓ w	ELL PLAT OR M	AP PREPARED BY	LICENSED SURVE	YOR OR E	NGINEER		СОМ	PLETE DRII	LLING PI	_AN				
AF	FIDAVIT OF STA	ATUS OF SURFACE	OWNER AGREEM	IENT (IF FE	EE SURFACE)		FORM	1 5. IF OPER	RATOR I	S OTHER THAN THE LI	EASE OW	NER		
I ✓ DII	RECTIONAL SU	RVEY PLAN (IF DIR	ECTIONALLY OR	HORIZON	ITALLY DRILLED)	торо	GRAPHICA	L MAP					
NAME G	ina Becker			TITLE	Regulatory Analy	st II			PHON	E 720 929-6086				
SIGNATU	JRE			DATE	12/14/2012				EMAIL	. gina.becker@anadark	o.com			
	BER ASSIGNED 047534130			APPRO	DVAL				Bro	00 cylll				
				1					Perm	nit Manager				

NBU 922-33M Pad Drilling Program

1 of 6

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33M4CS

Surface: 819 FSL / 262 FWL SWSW
BHL: 65 FSL / 824 FWL SWSW

Section 33 T9S R22E

Unitah County, Utah Mineral Lease: UTU-01191-A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,194'	
Birds Nest	1,477'	Water
Mahogany	1,875'	Water
Wasatch	4,367'	Gas
Mesaverde	6,844'	Gas
Sego	9,007'	Gas
Castlegate	9,084'	Gas
Blackhawk	9,518'	Gas
TVD =	10,118'	
TD =	10,263'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

NBU 922-33M Pad Drilling Program 2 of 6

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 10118' TVD, approximately equals 6,476 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,235 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9007' TVD, approximately equals 5,494 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,536 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

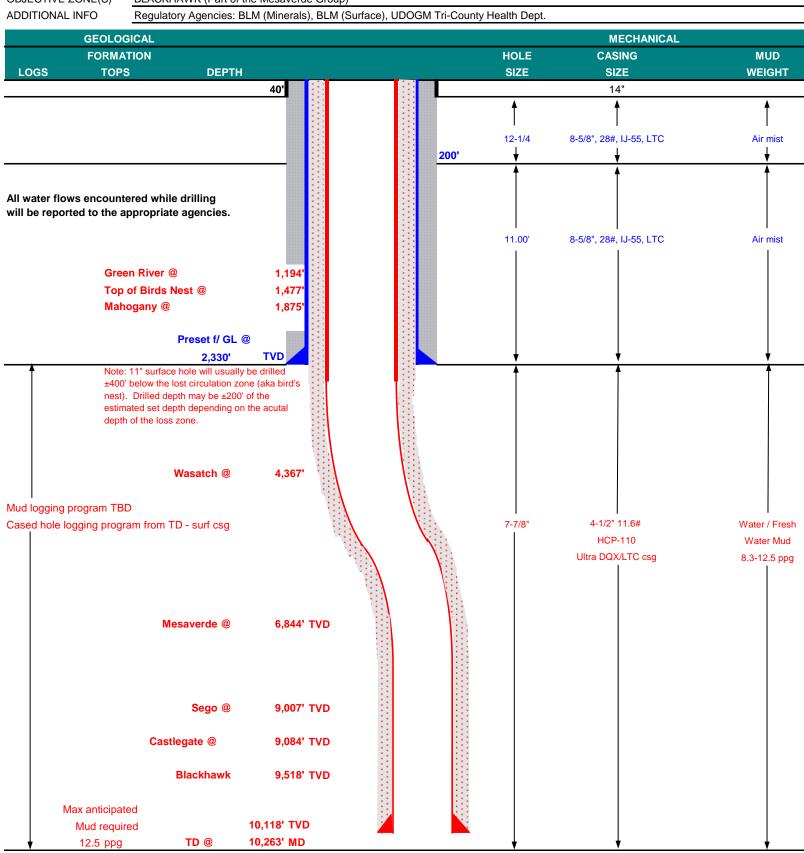
10. Other Information:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

COMPANY NAME KER	R-McGEE OIL &	GAS ONSHORE	LP		DATE	November	8, 2012		
WELL NAME NB	U 922-33M40	CS			TD	10,118'	TVD	10,263' MD	
FIELD Natural Butte	S	COUNTY	Uintah S	TATE Utah	1	FINIS	SHED ELEVATION	5,015'	
SURFACE LOCATION	SWSW	819 FSL	262 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.987508	Longitude:	-109.453	467		NAD 83		
BTM HOLE LOCATION	SWSW	65 FSL	824 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.985440	Longitude:	-109.451	453		NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK	(Part of the Mesa	verde Group)	•	•				
ADDITIONAL INFO	Regulatory Age	encies: BLM (Min	erals). BLM (Surf	face). UDOC	GM Tri-Co	ounty Health De	ot.		



DESIGN FACTORS



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

CASING PROGRAM

CONDUCTOR

SURFACE

PRODUCTION

									LTC	DQX
SIZE	INT	ERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
14"	(0-40'								
							3,390	1,880	348,000	N/A
8-5/8"	0	to	2,330	28.00	IJ-55	LTC	2.31	1.72	6.09	N/A
							10,690	8,650	279,000	367,174
4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.32		3.81
4-1/2"	5,000	to	10,263'	11.60	HCP-110	LTC	1.19	1.32	5.65	

Surface Casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	Г	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
TOP OUT CMT (6 jobs	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to	surface, opti	on 2 will be	utilized		
Option 2 LEAD	1,830'	Premium cmt + 16% Gel + 10 pps gilsonite	220	35%	12.00		2.86
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
TAII	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele					
TOP OUT CM	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	3,863'	Premium Lite II +0.25 pps	310	35%	12.00		3.38
		celloflake + 5 pps gilsonite + 10% gel					
		+ 0.5% extender					
TAII	6,400'	50/50 Poz/G + 10% salt + 2% gel	1,510	35%	14.30		1.31
		+ 0.1% R-3					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER: Nick Spence / Danny Showers / Travis Hansell DATE:

DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young DATE:

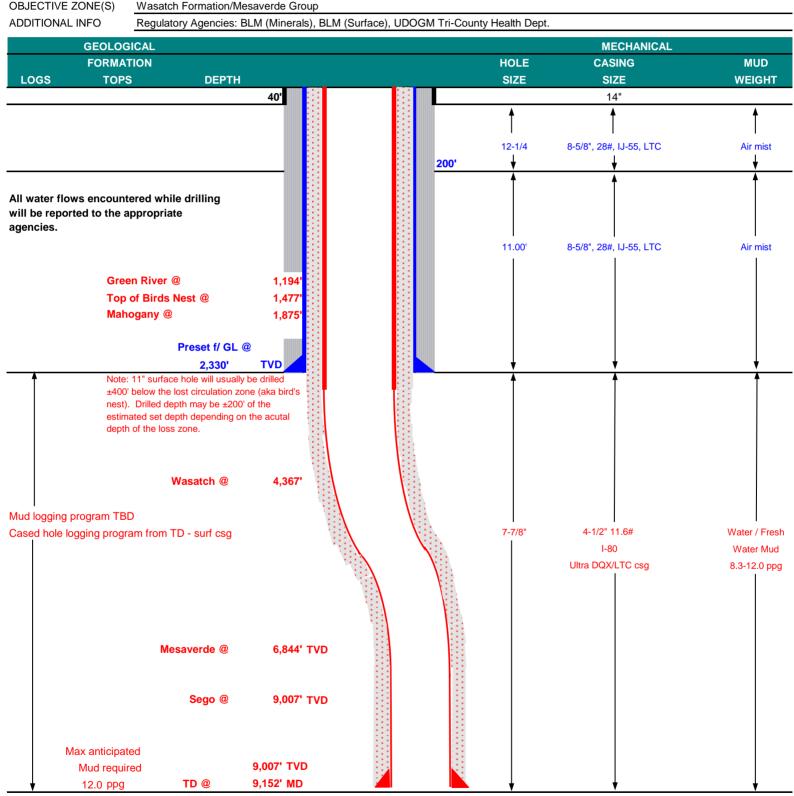
NBU 922-33M Pad- Drilling Program Approved by Drilling- 110912.xlsx

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

COMPANY NAME KER	R-McGEE OIL	& GAS ONSHOR	E LP		DATE	November	r 8, 2012		
WELL NAME NB	U 922-33M4	CS			TD	9,007'	TVD	9,152' MD	
FIELD Natural Butte	S	COUNTY	Uintah S	STATE Utal	<u>n</u>	FINI	SHED ELEVATION_	5,015'	
SURFACE LOCATION	SWSW	819 FSL	262 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.987508	Longitude:	: -109.45	3467		NAD 83		
BTM HOLE LOCATION	SWSW	65 FSL	824 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.985440	Longitude:	: -109.45	1453		NAD 83		
OBJECTIVE ZONE(S)	Wasatch Forn	mation/Mesaverde	e Group			•			
ADDITIONAL INFO	Regulatory Ad	encies: BLM (Mi	nerals). BLM (S	urface). UDC	OGM Tri-C	County Health D	ept.		





KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

CASING	PROGRAM

CONDUCTOR

SURFACE **PRODUCTION**

=											
										LTC	DQX
	SIZE	INTERVAL			WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
	14"	(0-40'								
								3,390	1,880	348,000	N/A
	8-5/8"	0	to	2,330	28.00	IJ-55	LTC	2.31	1.72	6.09	N/A
								7,780	6,350		267,035
	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.13		3.08
								7,780	6,350	223,000	
	4-1/2"	5,000	to	9,152'	11.60	I-80	LTC	1.11	1.13	5.67	

Surface Casing:

(Burst Assumptions: TD = 12.0

ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	łT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to	surface, option	on 2 will be	utilized		
Option 2 LEAD	1,830'	Premium cmt + 16% Gel + 10 pps gilsonite	220	35%	12.00		2.86
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	3,862'	Premium Lite II +0.25 pps	310	35%	12.00		3.38
		celloflake + 5 pps gilsonite + 10% gel					
		+ 0.5% extender					
TAIL	5,290'	50/50 Poz/G + 10% salt + 2% gel	1,250	35%	14.30		1.31
		+ 0.1% R-3					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

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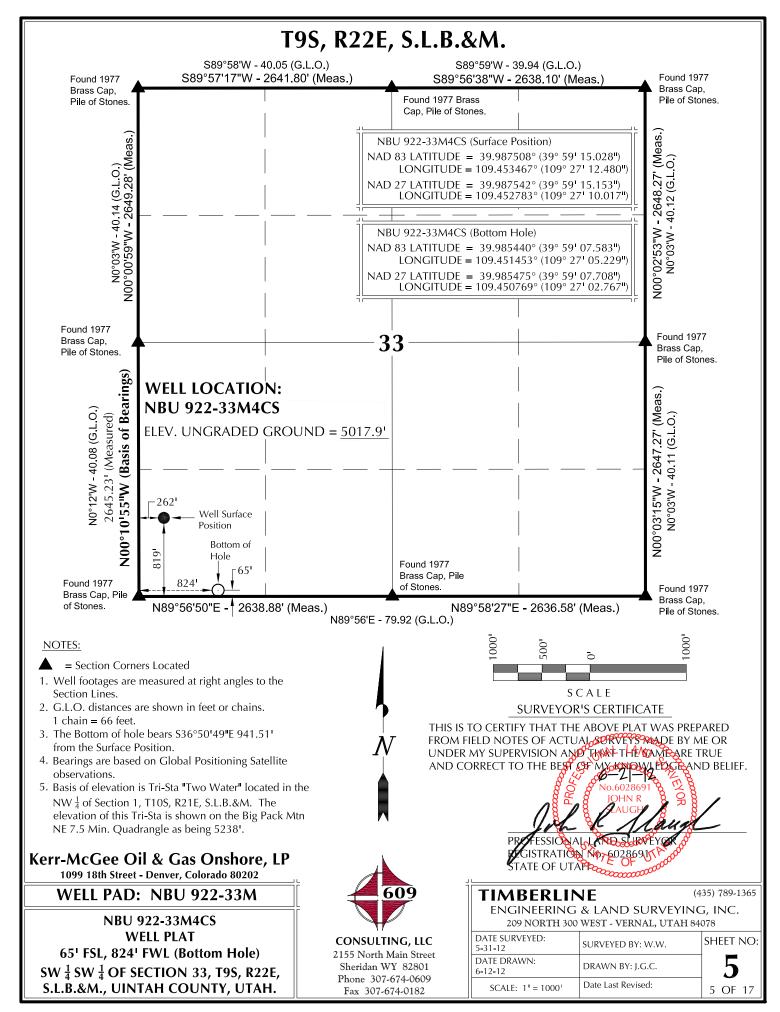
IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER: Nick Spence / Danny Showers / Travis Hansell

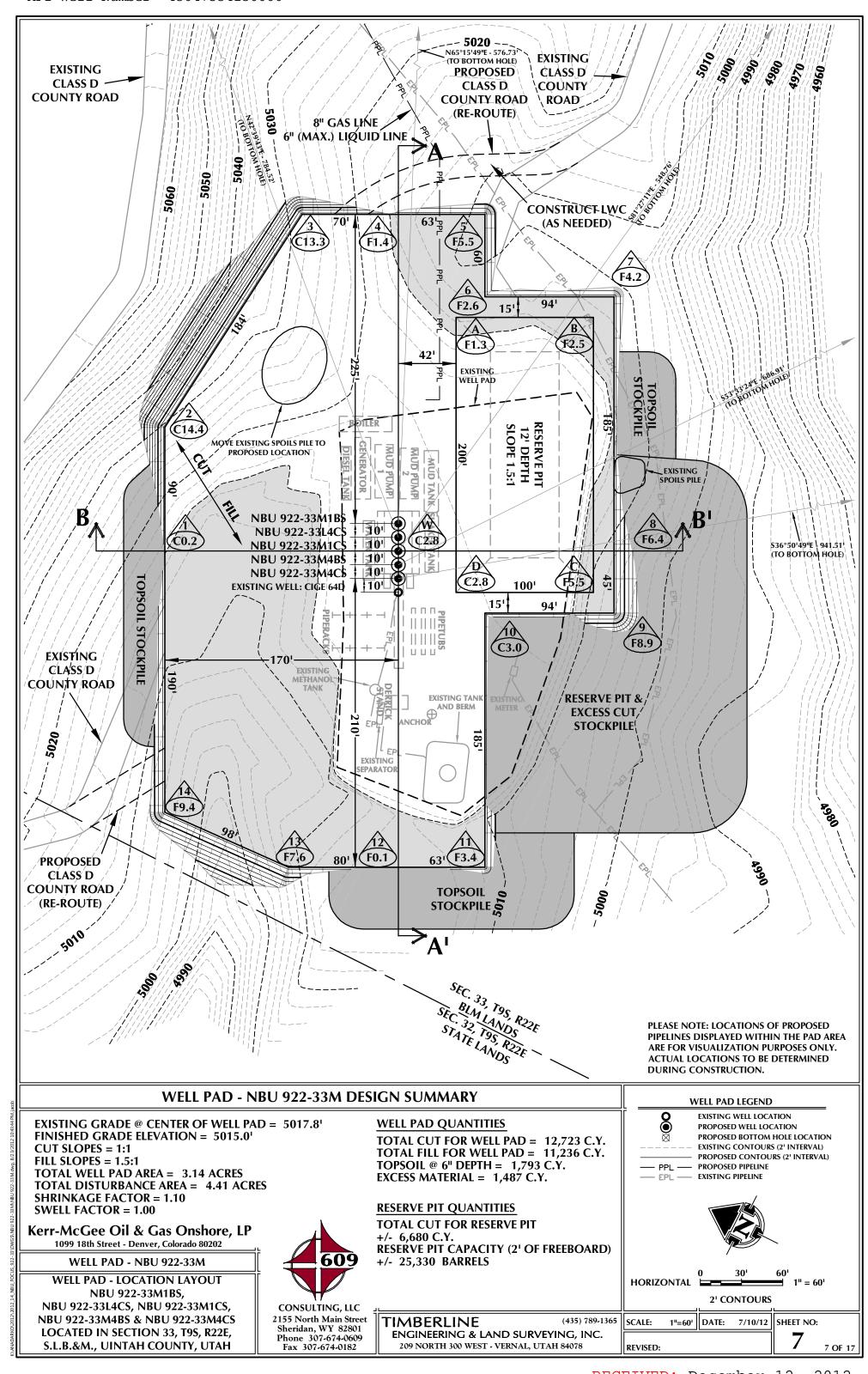
DRILLING SUPERINTENDENT: Kenny Gathings / Lovel Young

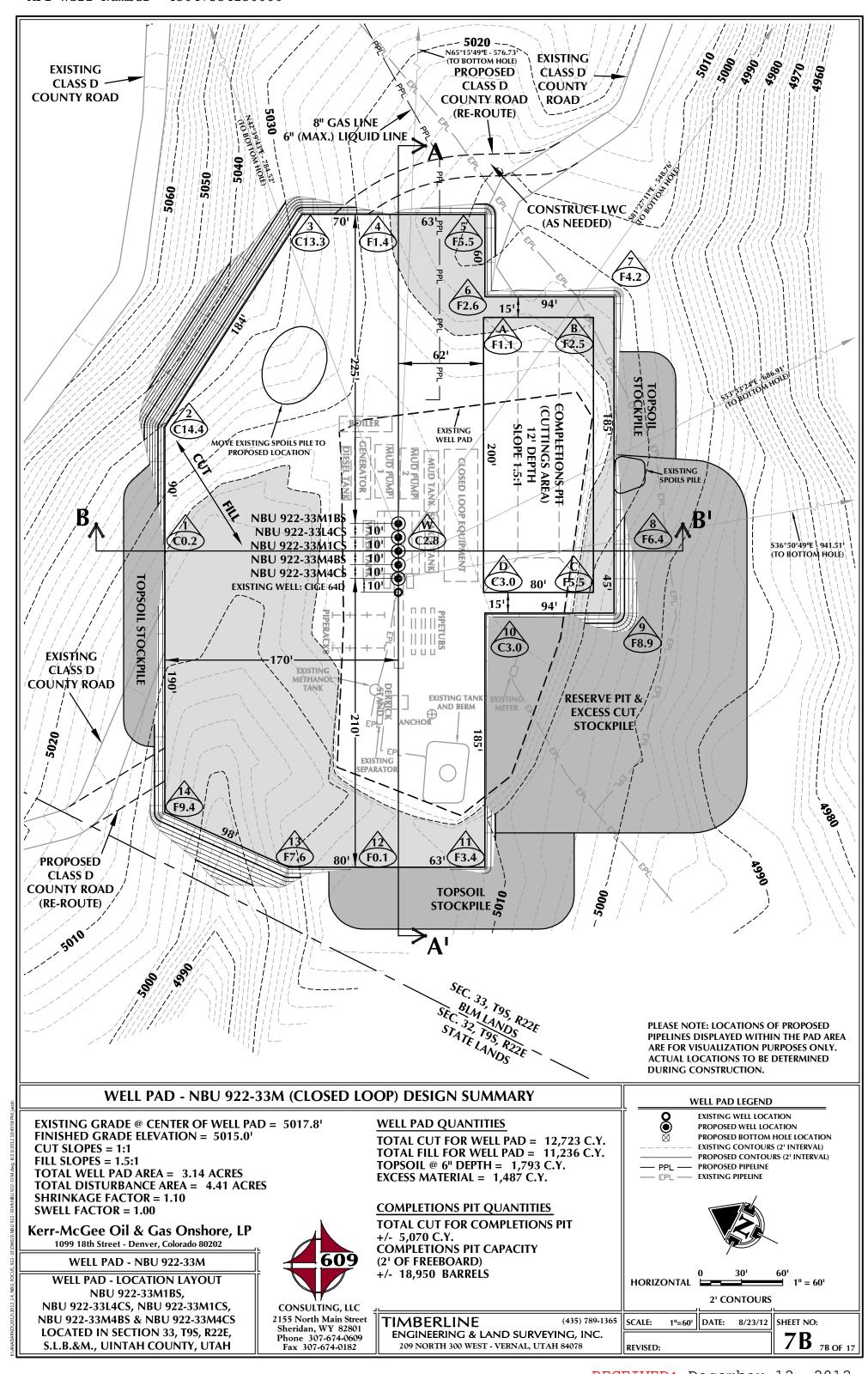
NBU 922-33M Pad- Drilling Program Approved by Drilling- 110912.xlsx

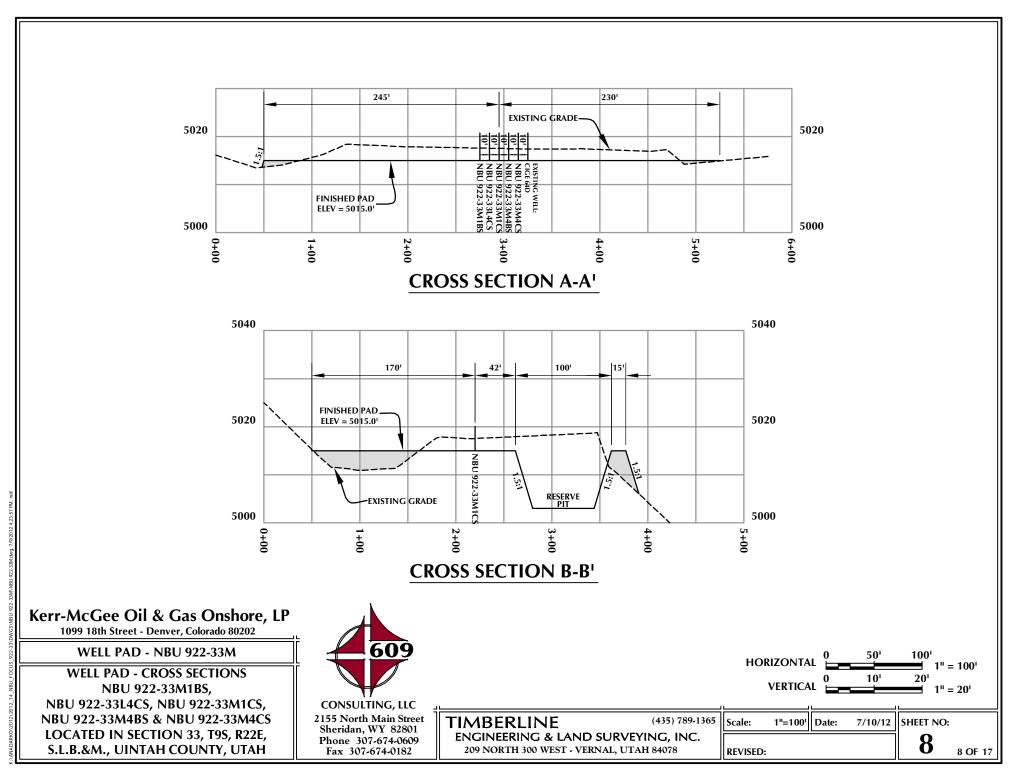
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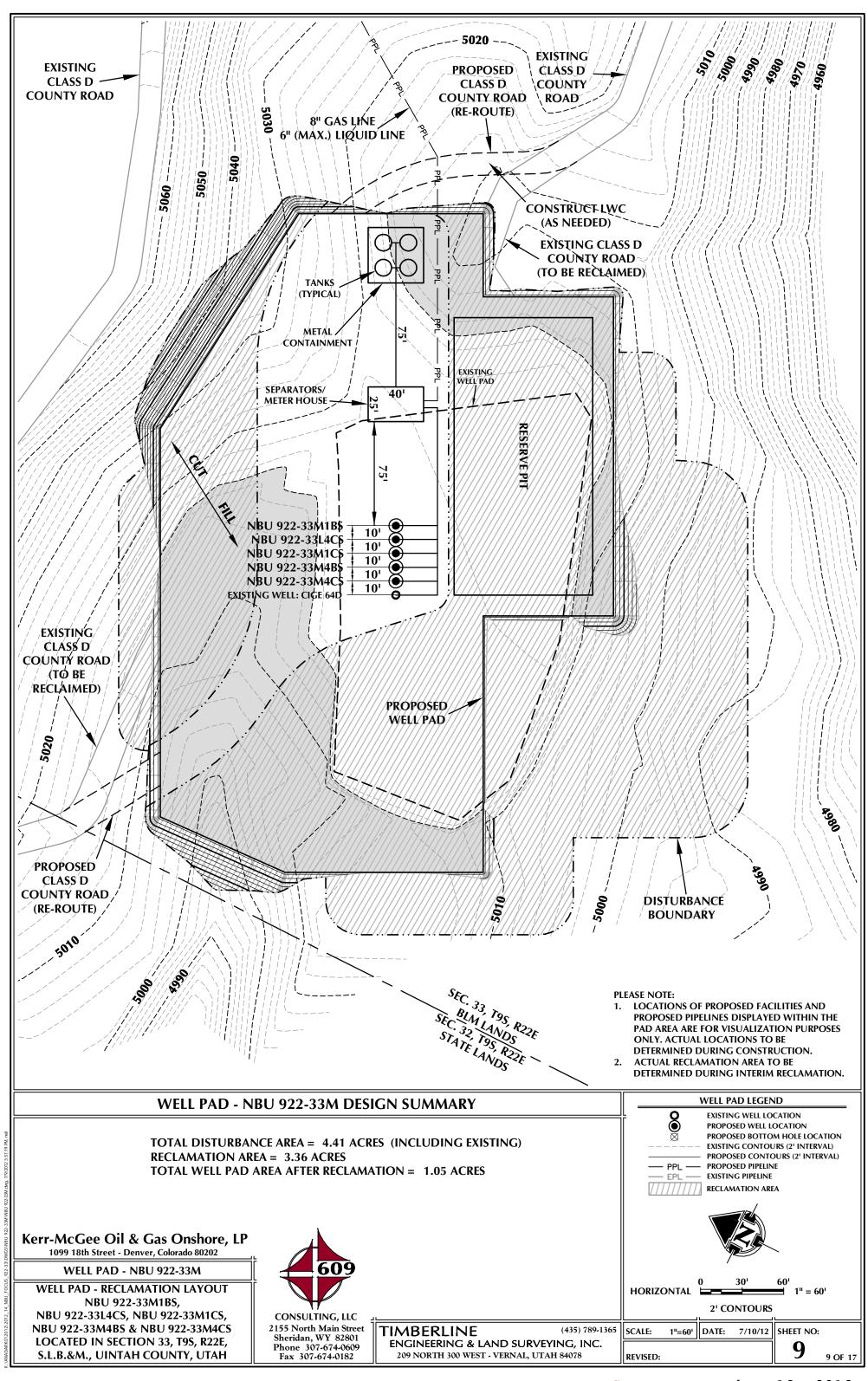


			SURFACE POS							OTTOM HOLE		
WELL NAME	NA LATITUDE	D83 LONGITU	DE LATITU	NAD27	ITUDE	FOOTAGES	LATITUI	NAD	83 LONGITUDE	NAI LATITUDE	D27 LONGITUDE	FOOTAGES
NBU	39°59'15.208				09.560	837' FSL	39°59'17		109°27'05.294"			1078' FSL
922-33M1BS	39.987558°	109.453340)° 39.98759	3° 109.452	2656°	297' FWL	39.988220)°	109.451471°	39.988255°	109.450787°	8221 FWL
NBU 922-33L4CS	39°59'15.163 39.987545°	109°27'12.1 109.453371			09.674"	8331 FSL	39°59'20. 39.989128		109°27'05.307" 109.451474°	39°59'20.987" 39.989163°		1409' FSL 822' FWL
NBU	39°59'15.118				2007° '09.789"	289' FWL 828' FSL	39°59'14.	$\overline{}$	109.431474° 109°27'05.281"	39°59'14.437"	109.450790° 109°27'02.819"	746' FSL
922-33M1CS	39.987533°	109.453403	39.98756	8° 109.452	2719°	280' FWL	39.987309)°	109.451467°	39.987343°	109.450783°	822' FWL
NBU 922-33M4BS	39°59'15.073 39.987520°	109°27'12.3 109.453435			09.903"	824' FSL 271' FWL	39°59'11.0 39.986400	- 1	109°27'05.269"	39°59'11.166" 39.986435°		415' FSL 822' FWL
NBU	39°59'15.028					819' FSL	39°59'07		109.451463° 109°27'05.229"	39°59'07.708"	109.450780° 109°27'02.767"	65' FSL
922-33M4CS	39.987508°	109.453467	70 39.98754	2° 109.452	2783°	262' FWL	39.985440		109.451453°	39.985475°	109.450769°	824' FWL
CIGE 64D	39°59'14.983 39.987495°	109°27'12.5 109.453498			'10.132" 10.132	814' FSL 253' FWL						
	33.307 133	109.433490				- From Surface	Position to	Botto	m Hole			
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS			NORT		WELL NAM	AE NORTH	EAST
NBU	241.31	523.81	NBU	576.91	531.	NBU		-81.6		NBU	-408 0'	552.6¹
922-33M1BS			922-33L4CS	37 0.3	331.	922-33	BM1CS	01.0	342.7	922-33M4B	BS 400.0	332.0
WELL NAME NBU	NORTH	EAST										1
922-33M4CS	-753.4'	564.6'										,
				, 83.783 1.68	90, 94448°	1272° 50				A. 20 Batto		
,09	30	N	S62°55'29" AZ=242.9		ONDAR JOO VARILI: CICE		5,10,10		\$3333333	(To	Z=98.54694 Bottom Hole NI=65.2636 NI=65.2636 NI=65.2636 NI=65.2636	
Kerr-McC 1099 18 WELL WELL V NBU 9	Gee Oil & Bith Street - De L PAD - PAD INT WELLS - NBU 222-33L4CS	S Gas O enver, Colora NBU 92: ERFERENC J 922-33M° NBU 922-	Onshore, I ado 80202 2-33M CE PLAT 1BS, 33M1CS,	LP	CONSI		\$360 BOK 13	TI E	MBERLI NGINEERIN 209 NORTH 3 SURVEYED:	100 100 100 100 100 100 100 100	Z=98.54694 Bottom Hole 2=98.54694 Bottom Hole 2111"E - 548.	35) 789-1365 G, INC. 078 SHEET NO.
Kerr-McC 1099 18 WELL WELL V NBU 9	Gee Oil & Bth Street - De L PAD - PAD INT WELLS - NBU	SALE SALE	Onshore, I ado 80202 2-33M CE PLAT 1BS, 33M1CS, 2-33M4CS	LP	CONSI 2155 No Sherida	609 ULTING, LL	Si Go Bolto	TI E	MBERLINGINEERIN 209 NORTH 3 SURVEYED: 12 DRAWN:	100 (10) (10) (10) (10) (10) (10) (10) (Z=98.54694 Bottom Hole 2=98.54694 Bottom Hole 2=11"E - 548 SURVEYINC RNAL, UTAH 840 BY: W.W.	35) 789-1365 G, INC.









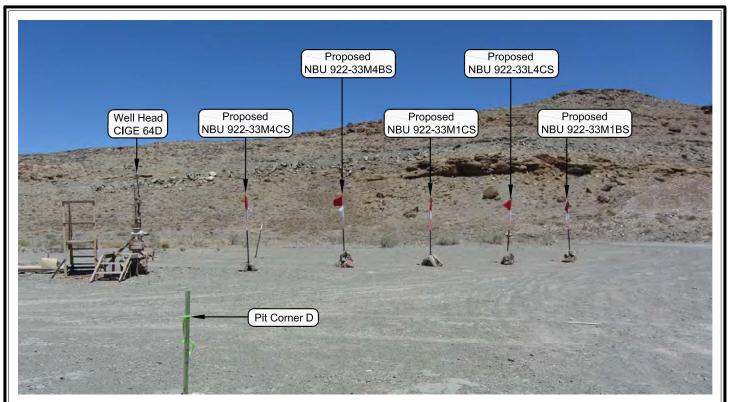


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

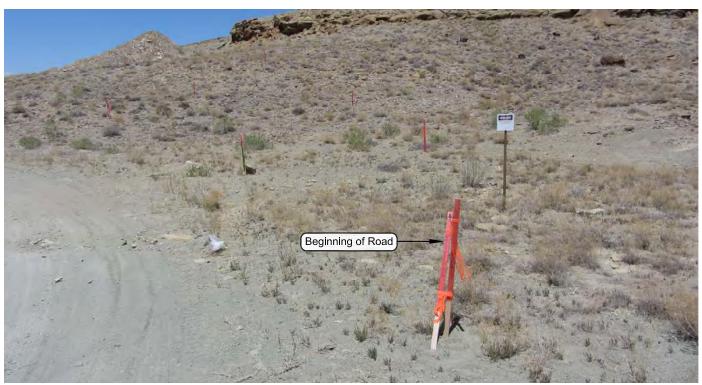


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33M

LOCATION PHOTOS
NBU 922-33M1BS,
NBU 922-33L4CS, NBU 922-33M1CS,
NBU 922-33M4BS & NBU 922-33M4CS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

Date Last Revised:

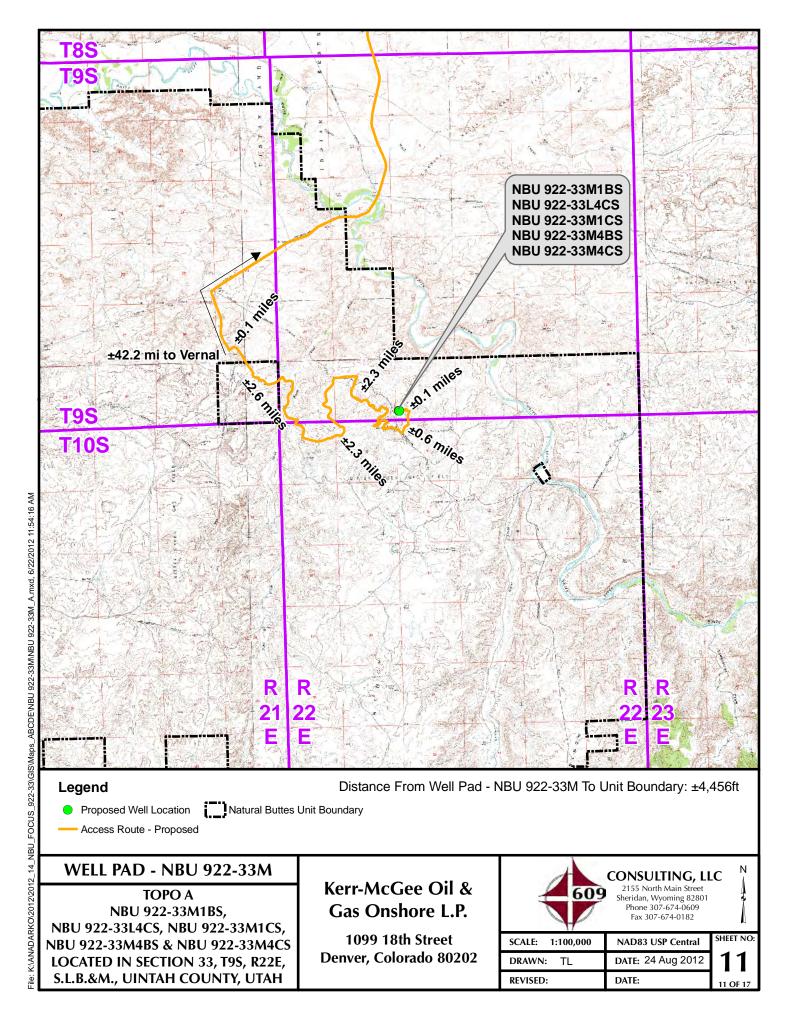
(435) 789-1365

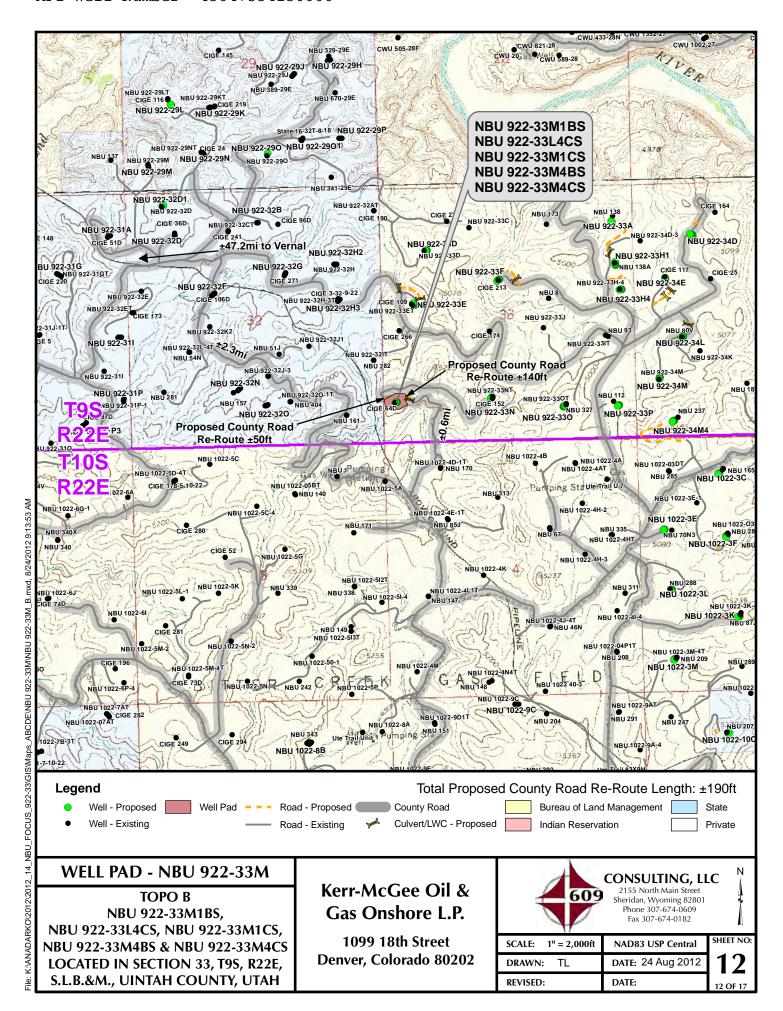
10 OF 17

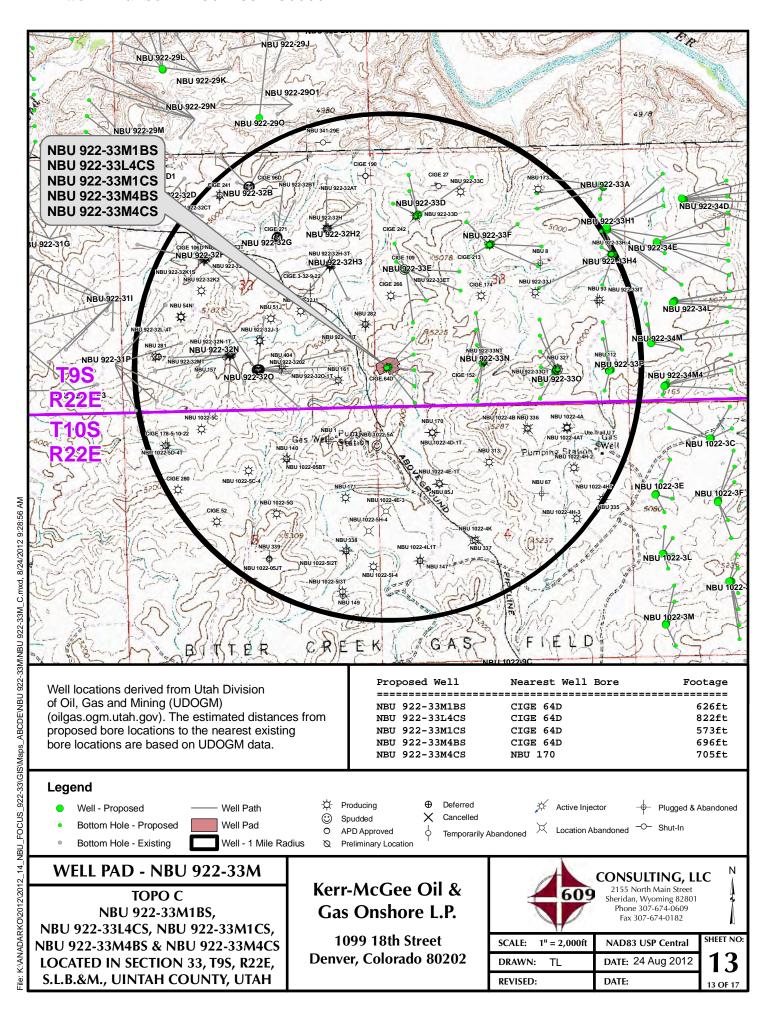
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

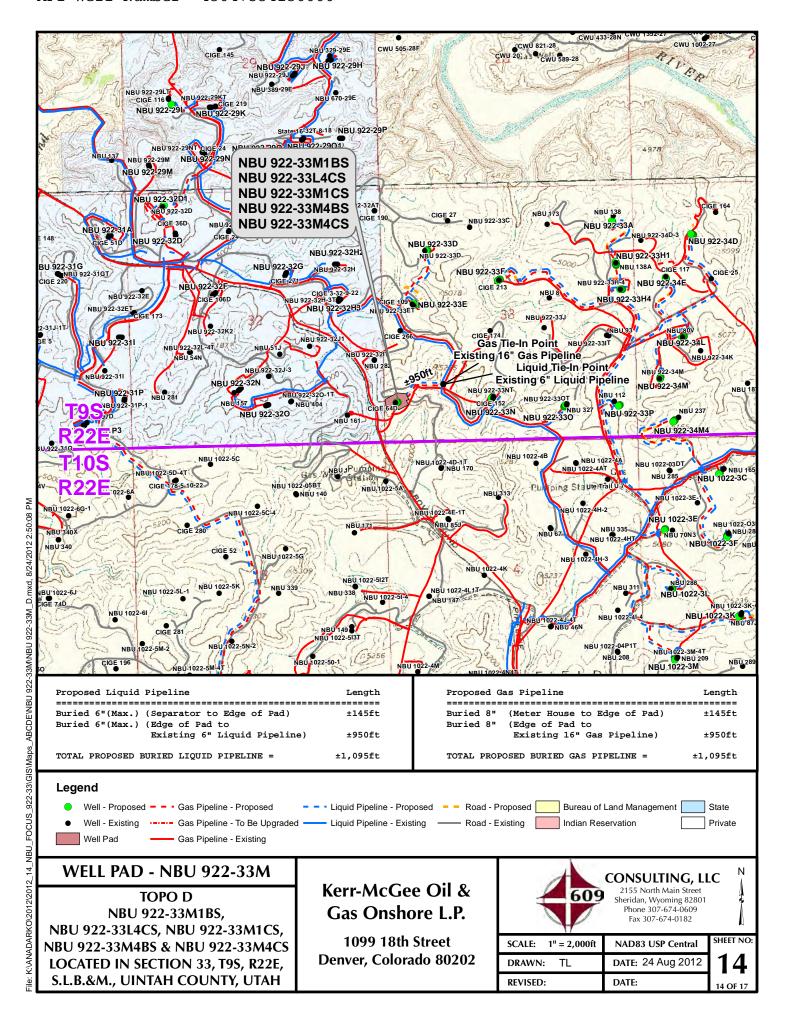
DATE PHOTOS TAKEN: 5-31-12	PHOTOS TAKEN BY: W.W.	SHEET NO:
DATE DRAWN: 6-12-12	DRAWN BY: J.G.C.	10

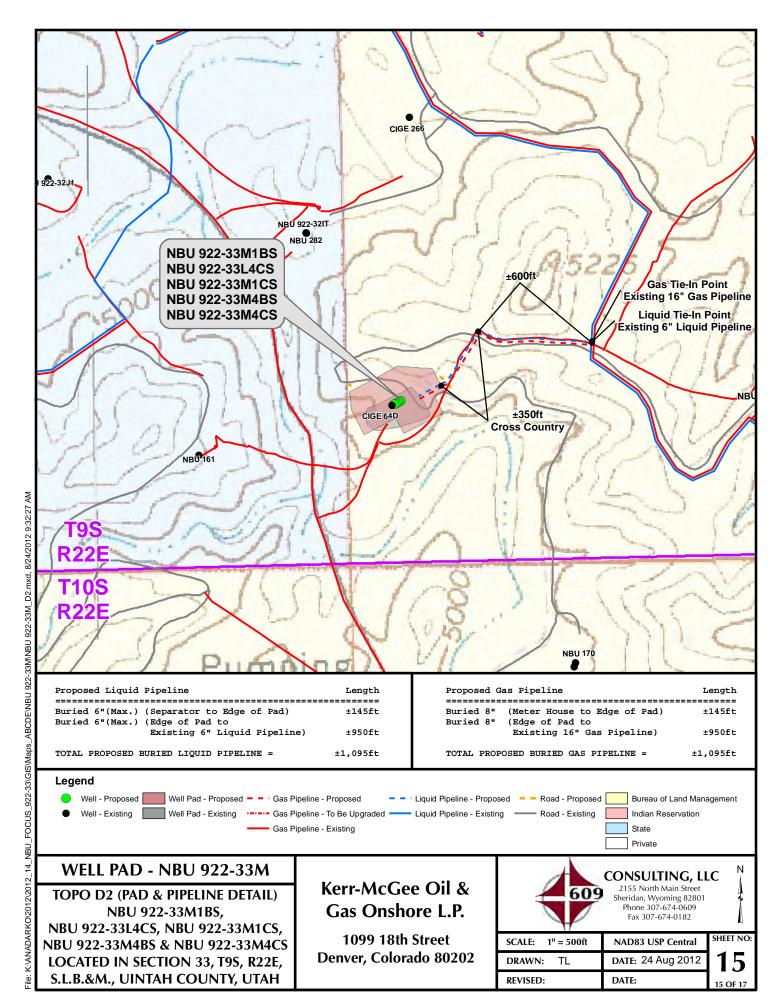
RECEIVED: December 12, 2012

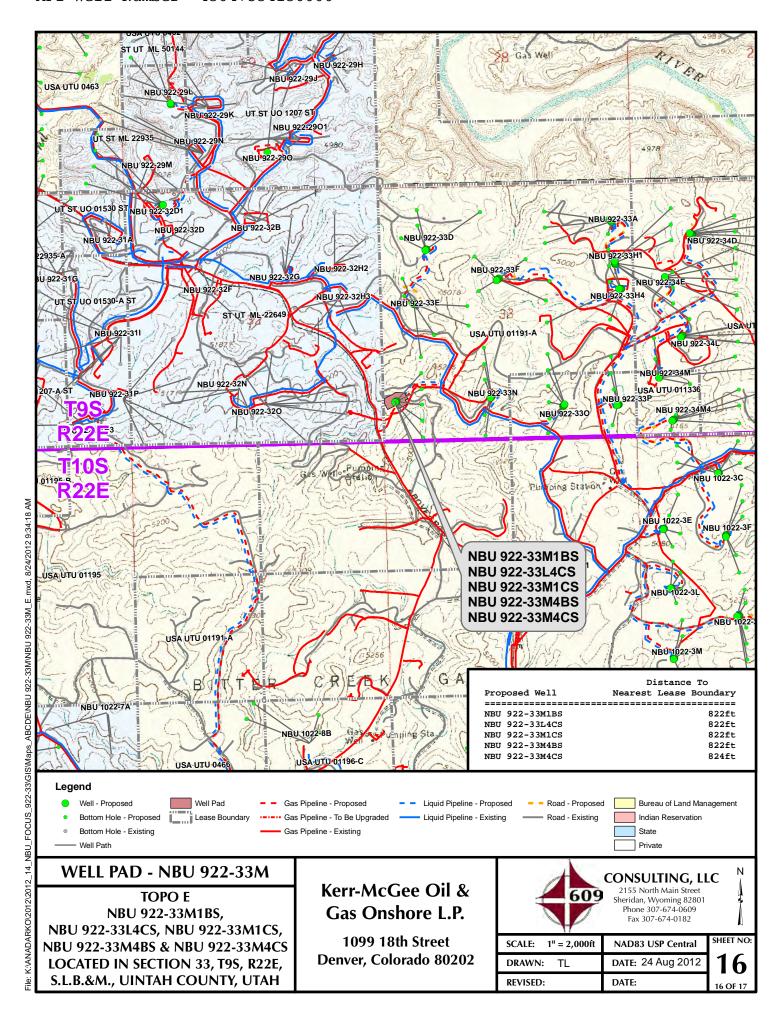












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 922-33M WELLS – NBU 922-33M1BS, NBU 922-33L4CS, NBU 922-33M1CS, NBU 922-33M4BS & NBU 922-33M4CS Section 33, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly direction along the third Class D County Road approximately 2.3 miles to a fourth Class D County Road to the south. Exit right and proceed in a southerly, then southeasterly direction along the fourth Class D County Road approximately 2.3 miles to a fifth Class D County Road to the northeast. Exit left and proceed in a northeasterly, then northwesterly direction along the fifth Class D County Road approximately 0.6 miles to the proposed access road to the northwest. Follow road flags in a northwesterly direction approximately 140 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.2 miles in a southerly direction.

SHEET 17 OF 17

API Well Number: 43047 5 to Ject 2007 API - UTM (feet), NAD27, Zone 12N

Scientific Drilling

-752.82

TVD

9007.00

-750

750

1500

Vertical Section at 143.15° (1500 ft/in)

2250

3000

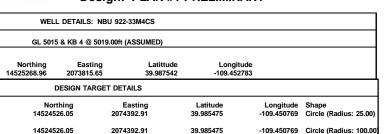
3750

SEGO

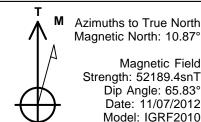
Site: NBU 922-33M PAD Well: NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY



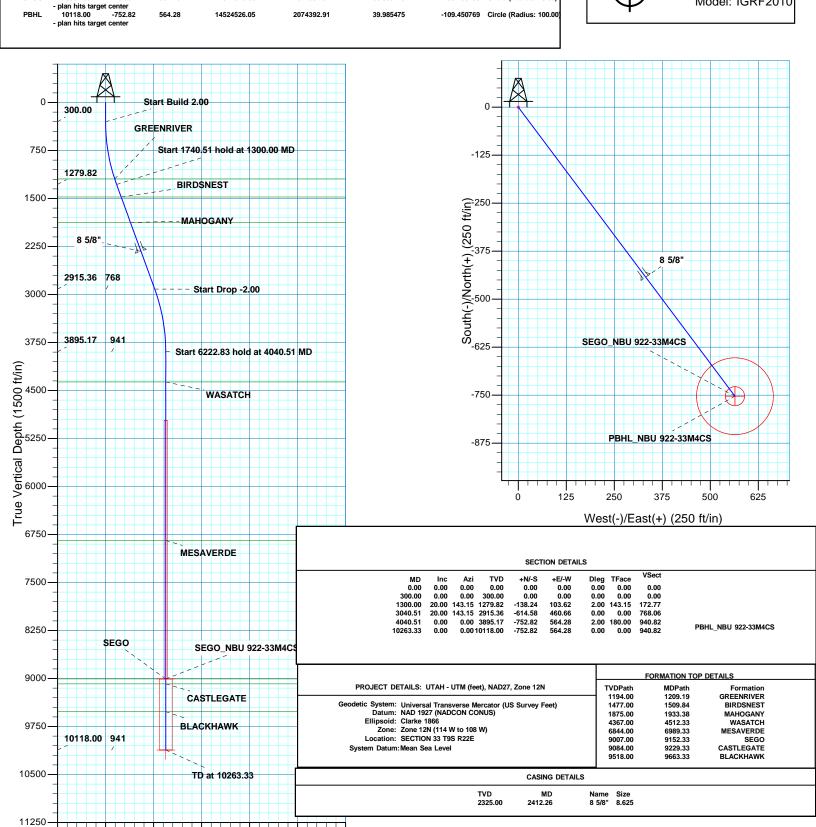




Plan: PLAN #1 PRELIMINARY (NBU 922-33M4CS/OH)

Date: 15:22, November 07 2012

Created By: RobertScott





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-33M PAD NBU 922-33M4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

07 November, 2012





SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33M PAD

 Well:
 NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33M4CS

GL 5015 & KB 4 @ 5019.00ft (ASSUMED) GL 5015 & KB 4 @ 5019.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 922-33M PAD, SECTION 33 T9S R22E

Northing: 14,525,283.27 usft Site Position: Latitude: 39.987580 From: Lat/Long Easting: 2,073,842.30 usft Longitude: -109.452687 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 0.99 13.200 in

System Datum:

Well NBU 922-33M4CS, 819 FSL 262 FWL

 Well Position
 +N/-S
 -13.84 ft
 Northing:
 14,525,268.97 usft
 Latitude:
 39.987542

 +E/-W
 -26.90 ft
 Easting:
 2,073,815.65 usft
 Longitude:
 -109.452783

Position Uncertainty0.00 ftWellhead Elevation:Ground Level:5,015.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 11/07/12 10.87 65.83 52,189

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 143.15

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	20.00	143.15	1,279.82	-138.24	103.62	2.00	2.00	0.00	143.15	
3,040.51	20.00	143.15	2,915.36	-614.58	460.66	0.00	0.00	0.00	0.00	
4,040.51	0.00	0.00	3,895.17	-752.82	564.28	2.00	-2.00	0.00	180.00	
10,263.33	0.00	0.00	10,118.00	-752.82	564.28	0.00	0.00	0.00	0.00 PE	3HL_NBU 922-33M



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33M PAD

 Well:
 NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33M4CS

GL 5015 & KB 4 @ 5019.00ft (ASSUMED) GL 5015 & KB 4 @ 5019.00ft (ASSUMED)

True

Design:		PLAN #1 PRELIMINARY											
Planned Si													
Planned Si	urvey												
	easured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)			
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00			
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00			
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00			
S	Start Build 2.	00											
	400.00	2.00	143.15	399.98	-1.40	1.05	1.75	2.00	2.00	0.00			
	500.00	4.00	143.15	499.84	-5.58	4.19	6.98	2.00	2.00	0.00			
	600.00	6.00	143.15	599.45	-12.56	9.41	15.69	2.00	2.00	0.00			
	700.00	8.00	143.15	698.70	-22.31	16.72	27.88	2.00	2.00	0.00			
	800.00	10.00	143.15	797.47	-34.83	26.10	43.52	2.00	2.00	0.00			
	900.00	12.00	143.15	895.62	-50.09	37.55	62.60	2.00	2.00	0.00			
	1,000.00	14.00	143.15	993.06	-68.09	51.04	85.10	2.00	2.00	0.00			
	1,100.00	16.00	143.15	1,089.64	-88.80	66.56	110.98	2.00	2.00	0.00			
	1,200.00	18.00	143.15	1,185.27	-112.19	84.10	140.21	2.00	2.00	0.00			
	1,209.19	18.18	143.15	1,194.00	-114.48	85.81	143.07	2.00	2.00	0.00			
G	REENRIVE												
	1,300.00	20.00	143.15	1,279.82	-138.24	103.62	172.77	2.00	2.00	0.00			
S	Start 1740.51	hold at 1300.00	MD										
	1,400.00	20.00	143.15	1,373.78	-165.61	124.13	206.97	0.00	0.00	0.00			
	1,500.00	20.00	143.15	1,467.75	-192.98	144.65	241.17	0.00	0.00	0.00			
	1,500.00	20.00	143.15	1,477.00	-195.67	144.03	244.54	0.00	0.00	0.00			
_		20.00	143.15	1,477.00	-195.67	140.07	244.54	0.00	0.00	0.00			
В	BIRDSNEST												
	1,600.00	20.00	143.15	1,561.72	-220.35	165.16	275.37	0.00	0.00	0.00			
	1,700.00	20.00	143.15	1,655.69	-247.71	185.67	309.58	0.00	0.00	0.00			
	1,800.00	20.00	143.15	1,749.66	-275.08	206.19	343.78	0.00	0.00	0.00			
	1,900.00	20.00	143.15	1,843.63	-302.45	226.70	377.98	0.00	0.00	0.00			
	1,933.38	20.00	143.15	1,875.00	-311.58	233.55	389.40	0.00	0.00	0.00			
N	MAHOGANY			,									
	2,000.00	20.00	143.15	1,937.60	-329.82	247.21	412.18	0.00	0.00	0.00			
	2,100.00	20.00	143.15	2,031.57	-357.18	267.73	446.38	0.00	0.00	0.00			
	2,200.00	20.00	143.15	2,125.54	-384.55	288.24	480.59	0.00	0.00	0.00			
	2,300.00	20.00	143.15	2,219.51	-411.92	308.75	514.79	0.00	0.00	0.00			
	2,400.00	20.00	143.15	2,313.48	-439.29	329.27	548.99	0.00	0.00	0.00			
	2,412.26	20.00	143.15	2,325.00	-442.64	331.78	553.18	0.00	0.00	0.00			
8	5/8"												
	2,500.00	20.00	143.15	2,407.45	-466.65	349.78	583.19	0.00	0.00	0.00			
	2.600.00	20.00	143.15	2,501.42	-494.02	370.29	617.39	0.00	0.00	0.00			
	2,700.00	20.00	143.15	2,595.39	-521.39	390.81	651.60	0.00	0.00	0.00			
	2,800.00	20.00	143.15	2,689.35	-548.76	411.32	685.80	0.00	0.00	0.00			
	2,900.00	20.00	143.15	2,783.32	-546.76 -576.12	431.83	720.00	0.00	0.00	0.00			
	3,000.00	20.00	143.15	2,763.32	-603.49	451.65 452.35	720.00 754.20	0.00	0.00	0.00			
	3,000.00	20.00			-005.45			0.00		0.00			
	3,040.51	20.00	143.15	2,915.36	-614.58	460.66	768.06	0.00	0.00	0.00			
S	Start Drop -2.	.00											
	3,100.00	18.81	143.15	2,971.47	-630.39	472.51	787.82	2.00	-2.00	0.00			
	3,200.00	16.81	143.15	3,066.67	-654.87	490.86	818.41	2.00	-2.00	0.00			
	3,300.00	14.81	143.15	3,162.88	-676.67	507.20	845.65	2.00	-2.00	0.00			
	3,400.00	12.81	143.15	3,259.99	-695.77	521.51	869.52	2.00	-2.00	0.00			
					710 14					0.00			
	3,500.00	10.81	143.15	3,357.87	-712.14	533.79	889.99	2.00	-2.00 2.00				
	3,600.00	8.81	143.15	3,456.40	-725.77	544.01 552.16	907.02	2.00	-2.00	0.00			
	3,700.00	6.81	143.15	3,555.47	-736.65	552.16	920.61	2.00	-2.00	0.00			
	3,800.00	4.81	143.15	3,654.95	-744.75	558.23	930.73	2.00	-2.00	0.00			
	3,900.00	2.81	143.15	3,754.72	-750.06	562.21	937.38	2.00	-2.00	0.00			
	4,000.00	0.81	143.15	3,854.67	-752.59	564.11	940.54	2.00	-2.00	0.00			



SDI Planning Report



Database: EDM5000-RobertS-Local Company: US ROCKIES REGION P

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33M PAD

 Well:
 NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33M4CS

GL 5015 & KB 4 @ 5019.00ft (ASSUMED) GL 5015 & KB 4 @ 5019.00ft (ASSUMED)

True

nned S	Survey									
										_
N	leasured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
	4,040.51	0.00	0.00	3,895.17	-752.82	564.28	940.82	2.00	-2.00	0.00
5	Start 6222.83	3 hold at 4040.51	I MD							
	4,100.00	0.00	0.00	3,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,200.00	0.00	0.00	4,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,300.00	0.00	0.00	4,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,400.00	0.00	0.00	4.254.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,500.00	0.00	0.00	4,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,512.33	0.00	0.00	4,367.00	-752.82	564.28	940.82	0.00	0.00	0.00
1	WASATCH			,						
	4,600.00	0.00	0.00	4,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,700.00	0.00	0.00	4,554.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4.000.00	0.00	0.00	4.054.07	750.00	504.00	040.00	0.00	0.00	0.00
	4,800.00	0.00	0.00	4,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
	4,900.00	0.00 0.00	0.00 0.00	4,754.67 4,854.67	-752.82 752.82	564.28 564.28	940.82 940.82	0.00 0.00	0.00 0.00	0.00 0.00
	5,000.00 5,100.00	0.00	0.00	4,854.67 4,954.67	-752.82 -752.82	564.28	940.82 940.82	0.00	0.00	0.00
	5,100.00	0.00		4,954.67 5,054.67	-752.82	564.28	940.82 940.82		0.00	0.00
			0.00					0.00		
	5,300.00	0.00	0.00	5,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,400.00	0.00	0.00	5,254.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,500.00	0.00	0.00	5,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,600.00	0.00	0.00	5,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,700.00	0.00	0.00	5,554.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,800.00	0.00	0.00	5,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
	5,900.00	0.00	0.00	5,754.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,000.00	0.00	0.00	5,854.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,100.00	0.00	0.00	5,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,200.00	0.00	0.00	6,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,300.00	0.00	0.00	6,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,400.00	0.00	0.00	6,254.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,500.00	0.00	0.00	6,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,600.00	0.00	0.00	6,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,700.00	0.00	0.00	6,554.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,800.00	0.00	0.00	6,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
	6,900.00	0.00 0.00	0.00 0.00	6,754.67	-752.82 -752.82	564.28 564.28	940.82 940.82	0.00 0.00	0.00 0.00	0.00 0.00
	6,989.33		0.00	6,844.00	-132.02	304.20	940.62	0.00	0.00	0.00
	MESAVERDE 7 000 00		0.00	6 054 67	750.00	EC 4 00	040.00	0.00	0.00	0.00
	7,000.00 7,100.00	0.00 0.00	0.00	6,854.67	-752.82 752.82	564.28	940.82	0.00 0.00	0.00	0.00
	1,100.00	0.00	0.00	6,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,200.00	0.00	0.00	7,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,300.00	0.00	0.00	7,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,400.00	0.00	0.00	7,254.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,500.00	0.00	0.00	7,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,600.00	0.00	0.00	7,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,700.00	0.00	0.00	7.554.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,800.00	0.00	0.00	7,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
	7,900.00	0.00	0.00	7,754.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,000.00	0.00	0.00	7,854.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,100.00	0.00	0.00	7,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,200.00	0.00	0.00	8,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,300.00	0.00	0.00	8,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,400.00	0.00	0.00	8,254.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,500.00	0.00	0.00	8,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,600.00	0.00	0.00	8,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
	8,700.00	0.00	0.00	8,554.67	-752.82	564.28	940.82	0.00	0.00	0.00



SDIPlanning Report



Database: Company: Project: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33M PAD

 Well:
 NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
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Survey Calculation Method:

Well NBU 922-33M4CS

GL 5015 & KB 4 @ 5019.00ft (ASSUMED) GL 5015 & KB 4 @ 5019.00ft (ASSUMED)

True

									_
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
8,900.00	0.00	0.00	8,754.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,000.00	0.00	0.00	8,854.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,100.00	0.00	0.00	8,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,152.33	0.00	0.00	9,007.00	-752.82	564.28	940.82	0.00	0.00	0.00
SEGO - SEG	O_NBU 922-33N	I4CS							
9,200.00	0.00	0.00	9,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,229.33	0.00	0.00	9,084.00	-752.82	564.28	940.82	0.00	0.00	0.00
CASTLEGAT	ΓE								
9,300.00	0.00	0.00	9,154.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,400.00	0.00	0.00	9,254.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,500.00	0.00	0.00	9,354.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,600.00	0.00	0.00	9,454.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,663.33	0.00	0.00	9,518.00	-752.82	564.28	940.82	0.00	0.00	0.00
BLACKHAW	K								
9,700.00	0.00	0.00	9,554.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,800.00	0.00	0.00	9,654.67	-752.82	564.28	940.82	0.00	0.00	0.00
9,900.00	0.00	0.00	9,754.67	-752.82	564.28	940.82	0.00	0.00	0.00
10,000.00	0.00	0.00	9,854.67	-752.82	564.28	940.82	0.00	0.00	0.00
10,100.00	0.00	0.00	9,954.67	-752.82	564.28	940.82	0.00	0.00	0.00
10,200.00	0.00	0.00	10,054.67	-752.82	564.28	940.82	0.00	0.00	0.00
10,263.33	0.00	0.00	10,118.00	-752.82	564.28	940.82	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 922-33M40 - plan hits target cent - Circle (radius 25.00		0.00	9,007.00	-752.82	564.28	14,524,526.06	2,074,392.91	39.985475	-109.450769
PBHL_NBU 922-33M4C - plan hits target centre control (radius 100.0		0.00	10,118.00	-752.82	564.28	14,524,526.06	2,074,392.91	39.985475	-109.450769

Casing Points					
	Measured	Vertical		Casing	Hole
	Depth	Depth		Diameter	Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,412.26	2,325.00	8 5/8"	8.625	11.000



SDIPlanning Report



Database: Company:

Project:

EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33M PAD

 Well:
 NBU 922-33M4CS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-33M4CS

GL 5015 & KB 4 @ 5019.00ft (ASSUMED) GL 5015 & KB 4 @ 5019.00ft (ASSUMED)

True

Formations								
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)	
	1,209.19	1,194.00	GREENRIVER					
	1,509.84	1,477.00	BIRDSNEST					
	1,933.38	1,875.00	MAHOGANY					
	4,512.33	4,367.00	WASATCH					
	6,989.33	6,844.00	MESAVERDE					
	9,152.33	9,007.00	SEGO					
	9,229.33	9,084.00	CASTLEGATE					
	9,663.33	9,518.00	BLACKHAWK					

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-138.24	103.62	Start 1740.51 hold at 1300.00 MD
3,040.51	2,915.36	-614.58	460.66	Start Drop -2.00
4,040.51	3,895.17	-752.82	564.28	Start 6222.83 hold at 4040.51 MD
10,263.33	10,118.00	-752.82	564.28	TD at 10263.33

1 of 5

NBU 922-33L4CS/ 922-33M1BS/ 922-33M1CS NBU 922-33M4BS/ 922-33M4CS Kerr-McGee Oil Gas Onshore, L.P.

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33M PAD

<u>API #</u>	NBU 922	-33L4CS		
Sur	face: 833 FS	L / 289 FWL	SWSW	Lot
	BHL: 1409 FS	SL / 822 FWL	NWSW	Lot
<u>API #</u>	NBU 922	-33M1BS		
Sur	face: 837 FS	L / 297 FWL	SWSW	Lot
	BHL: 1078 FS	SL / 822 FWL	SWSW	Lot
<u>API #</u>	NBU 922	-33M1CS		
Sur	face: 828 FS	L / 280 FWL	SWSW	Lot
	BHL: 746 FS	L / 822 FWL	SWSW	Lot
<u>API #</u>	NBU 922	-33M4BS		
Sur	face: 824 FS	L / 271 FWL	SWSW	Lot
	BHL: 415 FS	L / 822 FWL	SWSW	Lot
<u>API #</u>	NBU 922	-33M4CS		
Sur	face: 819 FS	L / 262 FWL	SWSW	Lot
	BHL: 65 FSI	_ / 824 FWL	SWSW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on August 16-17, 2012. Present were:

- · Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett BLM;
- Jessi Brunson USFWS;
- · Bill Knapp ICF Consulting;
- Jacob Dunham 609 Consulting;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- · Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

±190' (0.04 miles) - Section 33 T9S R22E (SW/4 SW/4) - On-lease UTU-01191-A, County Road re-route from the edge of the pad to the existing road to the east. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the CIGE 64D, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 1,095$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±145' (0.03 miles) Section 33 T9S R22E (SW/4 SW/4) On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 -Pad and Pipeline Detail.
- (0.2 miles) Section 33 T9S R22E (SW/4 SW/4) On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the existing 16" gas pipeline to the east. Please refer to Exhibit A Gas Gathering- Lines 12 and 13.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ±1,095' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±145' (0.03 miles) Section 33 T9S R22E (SW/4 SW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 -Pad and Pipeline Detail.
- ±950' (0.2 miles) Section 33 T9S R22E (SW/4 SW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the existing 6" liquid pipeline to the east. Please refer to Exhibit B Liquid Gathering- Lines 12 and 13.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33L4CS/ 922-33M1BS/ 922-33M1CS

NBU 922-33M4BS/ 922-33M4CS

Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations

3 of 5

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33L4CS/ 922-33M1BS/ 922-33M1CS NBU 922-33M4BS/ 922-33M4CS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 4 of 5

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-837 and 841.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Surface Use Plan of Operations 5 of 5

NBU 922-33L4CS/ 922-33M1BS/ 922-33M1CS NBU 922-33M4BS/ 922-33M4CS Kerr-McGee Oil Gas Onshore, L.P.

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Senior Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

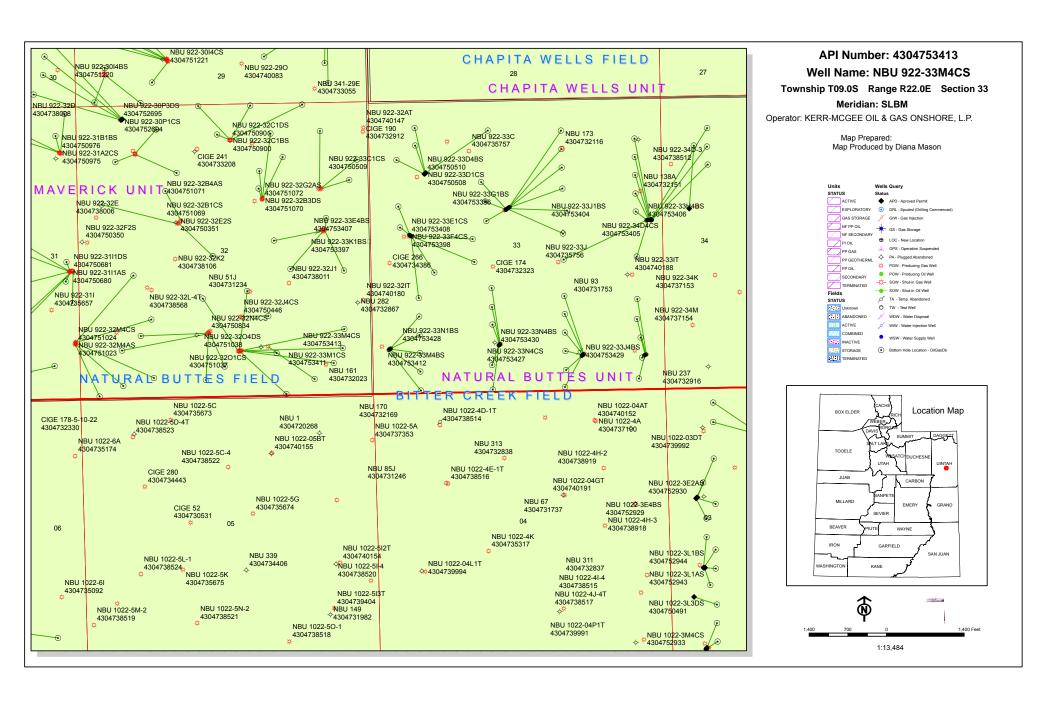
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

as O. Deler	November 5, 2012
Gina T.Becker	Date



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

December 20, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 922-33E I	DAD		,								
43-047-53386		922-33L4BS					R22E R22E				
43-047-53391	NBU						R22E R22E				
43-047-53397	NBU						R22E R22E				
43-047-53398	NBU						R22E R22E				
43-047-53407	NBU	922-33E4BS									
43-047-53408 NBU 922-33F F		922-33E1CS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	2420 1904	FNL FNL	0683 0487	FWL FWL
43-047-53387							R22E R22E				
43-047-53388	NBU	922-33B4BS					R22E R22E				
43-047-53389	NBU	922-33B4CS					R22E R22E				
43-047-53390	NBU						R22E R22E				
43-047-53392	NBU						R22E R22E				
43-047-53393	NBU						R22E R22E				

RECEIVED: December 20, 2012

API # W	ELL 1	NAME		LOCATION							
(Proposed PZ 43-047-53394				Sec	33	T09S T09S	R22E R22E	1972 2027	FNL FNL	2456 1738	FWL FEL
43-047-53395	NBU	922-33G4CS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	1978 2439	FNL FNL	2448 1818	FWL FEL
43-047-53396 NBU 922-33H	NBU	922-33G1BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	1961 1628	FNL FNL	2472 1811	FWL FEL
43-047-53399	NBU	922-33A4BS		Sec	33	T09S T09S	R22E	2221	FNL	0235	FEL
43-047-53400	NBU	922-33A4CS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	2222 1076	FNL FNL	0245 0493	FEL FEL
43-047-53401	NBU					T09S T09S					
43-047-53402	NBU	922-33H1BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	2222 1406	FNL FNL	0255 0493	FEL FEL
43-047-53403	NBU					T09S T09S					
43-047-53404	NBU	922-33J1BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	2225 2401	FNL FSL	0305 1814	FEL FEL
43-047-53405	NBU					T09S T09S					
43-047-53406 NBU 922-33M	NBU	922-33H4BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	2224 2068	FNL FNL	0295 0493	FEL FEL
43-047-53409	NBU	922-33L4CS		Sec	33	T09S T09S	R22E	0833	FSL	0289	FWL
43-047-53410	NBU	922-33M1BS									
43-047-53411	NBU					T09S T09S					
43-047-53412	NBU					T09S T09S					
43-047-53413 NBU 922-33N			BHL	Sec Sec	33 33	T09S T09S	R22E R22E	0819 0065	FSL FSL	0262 0824	FWL FWL
43-047-53414		922-33K4BS				T09S T09S					
43-047-53424	NBU	922-33K4CS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	0886 1563	FSL FSL	2267 2141	FWL FWL
43-047-53427	NBU					T09S T09S					
43-047-53428	NBU	922-33N1BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	0878 1242	FSL FSL	2261 2143	FWL FWL
43-047-53430											
NBU 922-33P 1 43-047-53416		922-33P1CS				T09S T09S					

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API Well Number: 43047534130000

API # WE	LLL 1	NAME LOCATION									
(Proposed PZ	WASA	ATCH-MESA VI	ERDE)							
43-047-53417	NBU						R22E R22E				
43-047-53418	NBU	922-33I4CS									
43-047-53422	NBU	922-33P4CS					R22E R22E				
43-047-53423 NBU 922-330 F	NBU	922-33P4BS	BHL	Sec Sec	33 33	T09S T09S	R22E R22E	0648 0613	FSL FSL	0390 0431	FEL FEL
43-047-53419	NBU	922-3304CS		Sec	33	T09S	R22E R22E	0661	FSL	1513	FEL
43-047-53420	NBU	922-3304BS									
43-047-53421	NBU	922-3301CS					R22E R22E				
43-047-53425	NBU						R22E R22E				
43-047-53426	NBU	922-33J4CS					R22E R22E				
43-047-53429			BHL	Sec Sec	33 33	T09S T09S	R22E R22E	0691 1739	FSL FSL	1486 1814	FEL FEL
NBU 921-17C F 43-047-53431				Sec	17	T09S		0620	FNL	2019	FWL
43-047-53432		921-17C1BS	BHL	Sec Sec	17 17	T09S T09S	R21E R21E	0625 0062	FNL FNL	2010 2158	FWL FWL
NBU 921-17B F 43-047-53433		921-17B1BS					R21E R21E				
43-047-53434	NBU	921-17A1CS					R21E R21E				
43-047-53435	NBU	921-17B4BS					R21E R21E				
43-047-53436	NBU	921-17A1BS					R21E R21E				

Michael L. Coulthard Digitally signed by Michael L Coulthard Discremkinchel L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email-Michael, Coulthard@blm.gov, c=US Date: 2012.12.20 13:54:48-0700'

bcc: File - Natural Buttes Unit
 Division of Oil Gas and Mining

Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:12-20-12

Page 3

API	Well No	Section	Township	Surface Location
43-047-53386	NBU 922-33L4BS	Sec 33	T09S R22E	2440 FNL 0705 FWL
43-047-53387	NBU 922-33B1CS	Sec 33	T09S R22E	1955 FNL 2480 FWL
43-047-53388	NBU 922-33B4BS	Sec 33	T09S R22E	1949 FNL 2488 FWL
43-047-53389	NBU 922-33B4CS	Sec 33	T09S R22E	1943 FNL 2497 FWL
43-047-53390	NBU 922-33F1BS	Sec 33	T09S R22E	1984 FNL 2439 FWL
43-047-53391	NBU 922-33L1CS	Sec 33	T09S R22E	2447 FNL 0713 FWL
43-047-53392	NBU 922-33F1CS	Sec 33	T09S R22E	1989 FNL 2431 FWL
43-047-53393	NBU 922-33F4BS	Sec 33	T09S R22E	1995 FNL 2423 FWL
43-047-53394	NBU 922-33G4BS	Sec 33	T09S R22E	1972 FNL 2456 FWL
43-047-53395	NBU 922-33G4CS	Sec 33	T09S R22E	1978 FNL 2448 FWL
43-047-53396	NBU 922-33G1BS	Sec 33	T09S R22E	1961 FNL 2472 FWL
43-047-53397	NBU 922-33K1BS	Sec 33	T09S R22E	2434 FNL 0698 FWL
43-047-53398	NBU 922-33F4CS	Sec 33	T09S R22E	2427 FNL 0690 FWL
43-047-53399	NBU 922-33A4BS	Sec 33	T09S R22E	2221 FNL 0235 FEL
43-047-53400	NBU 922-33A4CS	Sec 33	T09S R22E	2222 FNL 0245 FEL
43-047-53401	NBU 922-33H1CS	Sec 33	T09S R22E	2223 FNL 0265 FEL
43-047-53402	NBU 922-33H1BS	Sec 33	T09S R22E	2222 FNL 0255 FEL
43-047-53403	NBU 922-33I1BS	Sec 33	T09S R22E	2223 FNL 0275 FEL
43-047-53404	NBU 922-33J1BS	Sec 33	T09S R22E	2225 FNL 0305 FEL
43-047-53405	NBU 922-34D4CS	Sec 33	T09S R22E	2220 FNL 0205 FEL
43-047-53406	NBU 922-33H4BS	Sec 33	T09S R22E	2224 FNL 0295 FEL
43-047-53407	NBU 922-33E4BS	Sec 33	T09S R22E	2414 FNL 0675 FWL
43-047-53408	NBU 922-33E1CS	Sec 33	T09S R22E	2420 FNL 0683 FWL
43-047-53409	NBU 922-33L4CS	Sec 33	T09S R22E	0833 FSL 0289 FWL
43-047-53410	NBU 922-33M1BS	Sec 33	T09S R22E	0837 FSL 0297 FWL
43-047-53411	NBU 922-33M1CS	Sec 33	T09S R22E	0828 FSL 0280 FWL
43-047-53412	NBU 922-33M4BS	Sec 33	T09S R22E	0824 FSL 0271 FWL
43-047-53413	NBU 922-33M4CS	Sec 33	T09S R22E	0819 FSL 0262 FWL
43-047-53414	NBU 922-33K4BS	Sec 33	T09S R22E	0894 FSL 2273 FWL
43-047-53416	NBU 922-33P1CS	Sec 33	T09S R22E	0657 FSL 0372 FEL
43-047-53417	NBU 922-33P1BS	Sec 33	T09S R22E	0662 FSL 0364 FEL
43-047-53418	NBU 922-3314CS	Sec 33	T09S R22E	0667 FSL 0355 FEL
43-047-53419	NBU 922-3304CS	Sec 33	T09S R22E	0661 FSL 1513 FEL
43-047-53420	NBU 922-3304BS	Sec 33	T09S R22E	0654 FSL 1520 FEL
43-047-53421	NBU 922-3301CS	Sec 33	T09S R22E	0668 FSL 1506 FEL
43-047-53422	NBU 922-33P4CS	Sec 33	T09S R22E	0652 FSL 0381 FEL
43-047-53423	NBU 922-33P4BS	Sec 33	T09S R22E	0648 FSL 0390 FEL
43-047-53424	NBU 922-33K4CS	Sec 33	T09S R22E	0886 FSL 2267 FWL
43-047-53425	NBU 922-3301BS	Sec 33	T09S R22E	0676 FSL 1499 FEL
43-047-53427	NBU 922-33J4CS	Sec 33	T09S R22E	0683 FSL 1493 FEL
43-047-53427	NBU 922-33N4CS NBU 922-33N1BS	Sec 33	T09S R22E	0870 FSL 2255 FWL 0878 FSL 2261 FWL
43-047-53429		Sec 33	T09S R22E	
43-047-53429	NBU 922-33J4BS NBU 922-33N4BS	Sec 33 Sec 33	T09S R22E T09S R22E	0691 FSL 1486 FEL 0862 FSL 2249 FWL
43-047-53431	NBU 921-17C1CS	Sec 33	T095 R22E	0620 FNL 2019 FWL
43-047-53432	NBU 921-17C1BS	Sec 17	T095 R21E	0625 FNL 2019 FWL
43-047-53433	NBU 921-17C1B3	Sec 17	T095 R21E	0465 FNL 1960 FEL
43-047-53434	NBU 921-17B1B3	Sec 17	T095 R21E	0463 FNL 1940 FEL
43-047-53435	NBU 921-17B4BS	Sec 17	T095 R21E	0467 FNL 1970 FEL
43-047-53436	NBU 921-17A1BS	Sec 17	T095 R21E	0464 FNL 1950 FEL
10 01, 00100	1450 321-177103	JCC 1/	1000 11212	0-10-114E 1330 1 EE

API Well Number: 43047534130000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2012 API NO. ASSIGNED: 43047534130000

WELL NAME: NBU 922-33M4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6086

CONTACT: Gina Becker

PROPOSED LOCATION: SWSW 33 090S 220E **Permit Tech Review:**

> **SURFACE: 0819 FSL 0262 FWL Engineering Review:**

> BOTTOM: 0065 FSL 0824 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 39.98745 LONGITUDE: -109.45337 UTM SURF EASTINGS: 632047.00 NORTHINGS: 4427510.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01191-A PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

✓ PLAT R649-2-3.

Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 **Drilling Unit**

Board Cause No: Cause 173-14 Water Permit: 43-8496

Effective Date: 12/2/1999 **RDCC Review:**

Siting: Suspends General Siting Fee Surface Agreement

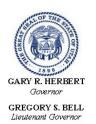
✓ Intent to Commingle R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-33M4CS API Well Number: 43047534130000 Lease Number: UTU-01191-A

Surface Owner: FEDERAL Approval Date: 12/27/2012

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No. UTU01191A

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

NOV 1 5 2012

APPLICATION FOR PERMIT	TO DRILL OR REENTER BLM	6. If Indian, Allottee or Tribe	Name
1a. Type of Work: ☑ DRILL ☐ REENTER	-	7. If Unit or CA Agreement, 3 891008900A	Name and No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Ot		8. Lease Name and Well No. NBU 922-33M4CS	
2. Name of Operator Contact: KERR MCGEE OIL & GAS ONSHOR Mall: cara.ma	CARA MAHLER	9. API Well No.	
		43047534	13
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029	10. Field and Pool, or Explora NATURAL BUTTES	atory
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area
At surface SWSW 819FSL 262FWL 3 At proposed prod. zone SWSW 65FSL 824FWL 39	39.987508 N Lat, 109.453467 W Lon 9.985440 N Lat, 109.451453 W Lon	Sec 33 T9S R22E Me SME: BLM	
14. Distance in miles and direction from nearest town or post APPROXIMATELY 50 MILES SOUTH OF VERM	office* NAL	12. County or Parish UINTAH	13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to	this well
824	1363.21 19. Proposed Depth		
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	20. BLM/BIA Bond No. on fi	le	
705	10263 MD 10118 TVD	WYB000291	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5015 GL	22. Approximate date work will start 05/01/2012	23. Estimated denation EIV 60-90 DAYS ECEIV	ED
	24. Attachments	MAY 3 1 2	2013
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to	his form:	c. ASSAUTACE
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 	em Lands, the 5. Operator certification	DIV. OF OIL, GAS ns unless covered by an existing ormation and/or plans as may be	
25. Signature (Electronic Submission)	Name (Printed/Typed)		Date
Title	CARA MAHÎLER Ph: 720-929-6029		11/15/2012
REGULATORY ANALYST			
Approved by (Signature)	Name (Printed/Typed)		Date
Sy Kenegha	Jerry Kenczk	a l	MAY 2 4 201
Assistant Field Manager	Office VERNAL FIELD OFFICE		
Application approval does not warrant or certify the applicant ho operations thereon.	lds legal or equitable title to those rights in the subject le	ase which would entitle the appli	cant to conduct
Conditions of approval, if any, are attached.	TIONS OF APPROVAL ATTACHED		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n States any false, fictitious or fraudulent statements or representati	gala it a crime for one manage lenguinel 1 'IIC II	make to any department or agen	cy of the United
Additional Operator Remarks (see next page)			

emarks (see next page)

Electronic Submission #160397 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/17/2012 (13JM010241)

NOTICE OF APPROVAL

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

NOS Hhula



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

KERR MCGEE OIL & GAS ONSHORE

170 South 500 East

NBU 922-33M4BS

43-047-53412

Location: Lease No: Agreement: SWSW, Sec. 33, T9S, R22E

UTU-01191A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

-	Forty-Eight (48) hours prior to construction of location and access roads.
-	Prior to moving on the drilling rig.
-	Twenty-Four (24) hours prior to spudding the well.
-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
_	Twenty-Four (24) hours prior to initiating pressure tests.
-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.
	-

Page 2 of 7 Well: NBU 922-33M4BS 5/17/2013

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - o Air Quality
 - o Soils
 - Vegetation: Sclerocactus wetlandicus
 - o Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 3/1 through 8/15, pending the results of a preconstruction nest occupancy survey for Red-Tailed Hawk Nest (BLM 2012b; BLM 2008a).

Page 3 of 7 Well: NBU 922-33M4BS 5/17/2013

- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 4/1 through 8/31, pending the results of a preconstruction nest occupancy survey for Prairie Falcon Nest (BLM 2012b; BLM 2008a).
- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattleguard and gate installed per BLM guidance.

Page 4 of 7 Well: NBU 922-33M4BS

5/17/2013

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- · Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

Page 5 of 7 Well: NBU 922-33M4BS 5/17/2013

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc).
 This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: NBU 922-33M4BS 5/17/2013

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <u>www.ONRR.gov</u>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

Page 7 of 7 Well: NBU 922-33M4BS 5/17/2013

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 43953 API Well Number: 43047534130000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURC		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33M4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047534130000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: UINTAH
0819 FSL 0262 FWL QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSW Section:	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Merid	lian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE ☐ CHANGE TO PREVIOUS PLANS	ALTER CASING CHANGE TUBING	CASING REPAIR CHANGE WELL NAME
12/27/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE PRODUCTION START OR RESUME	PLUG AND ABANDON RECLAMATION OF WELL SITE	☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
_	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	GOMPLETED OPERATIONS. Clearly show a Gas Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the Utah Division of Oil, Gas and Mining
			By: October 24, 2013
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMB 720 929-6236	ER TITLE Staff Regulatory Specialist	
SIGNATURE N/A		DATE 10/18/2013	

Sundry Number: 43953 API Well Number: 43047534130000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534130000

API: 43047534130000 **Well Name:** NBU 922-33M4CS

Location: 0819 FSL 0262 FWL QTR SWSW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

•		• • • • • • • • • • • • • • • • • • • •		
• If loca Yes	ated on private land, has the own No	ership changed, if so, h	as the surface agreem	ent been updated? 🔵
	any wells been drilled in the vici rements for this location?		ll which would affect t	the spacing or siting
	here been any unit or other agre- osed well? 🤵 Yes 📵 No	ements put in place that	could affect the perm	nitting or operation of this
	there been any changes to the a osed location? (Yes (No		wnership, or rightof- w	ay, which could affect the
• Has t	he approved source of water for	drilling changed? 🔘	Yes 📵 No	
	there been any physical changes from what was discussed at the			will require a change in
• Is bor	nding still in place, which covers	this proposed well?	Yes 🗍 No	
Signature:	Teena Paulo	Date: 10/18/2013		

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 57981 API Well Number: 43047534130000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A		
SUNDF	RY NOTICES AND REPORTS (ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33M4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047534130000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0819 FSL 0262 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Merid	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 11/19/2014	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
11/19/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show a Gas Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the UNakeDimbero25012014 Oil, Gas and Mining Date: By:
NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBI 720 929 6582	ER TITLE Regulatory Analyst	
SIGNATURE	150 959 0305	DATE	
N/A		11/19/2014	

Sundry Number: 57981 API Well Number: 43047534130000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534130000

API: 43047534130000 Well Name: NBU 922-33M4CS

Location: 0819 FSL 0262 FWL QTR SWSW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, h Yes No	nas the ownership changed, if so, has the surface agreement been updated? 🔘
Have any wells been drilled requirements for this locat	d in the vicinity of the proposed well which would affect the spacing or siting ion? (Yes (No
Has there been any unit or proposed well?	other agreements put in place that could affect the permitting or operation of this No
Have there been any chang proposed location? Y	ges to the access route including ownership, or rightof- way, which could affect the es 📵 No
• Has the approved source o	f water for drilling changed? 🔘 Yes 🌘 No
	cal changes to the surface location or access route which will require a change in ssed at the onsite evaluation? Q Yes 📵 No
• Is bonding still in place, wh	nich covers this proposed well? 🌘 Yes 🔘 No
nature: Kay E. Kelly	Date: 11/19/2014

Sig

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

APR 0 1 2015

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

Lease Serial No. UTU01191A

Do not use this form for proposals to drill or to re-enter abandoned well. Use form 3160-3 (APD) for such proposals					6. If Indian,	Allottee or T	ribe Name
SUBMIT IN TRI	SUBMIT IN TRIPLICATE - Other instructions on reverse side.					CA/Agreeme	ent, Name and/or No.
1. Type of Well	<u> </u>		·····		8. Well Nam	e and No.	
🗖 Oil Well 🛮 Gas Well 🔲 Otl	her				NBU 922	2-33M4CS	
Name of Operator KERR MCGEE OIL & GAS O	Contact: JO NSHOREELMail: joel.malefyt@a				9. API Well 43-047-	No. 53413-00-2	X1
3a. Address 3b. Phone N 1368 SOUTH 1200 EAST Ph: 720-9 VERNAL, UT 84078 Fx: 720-92				e)	10. Field and NATUR	d Pool, or Exp AL BUTTE	ploratory S
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)					11. County of	or Parish, and	State
Sec 33 T9S R22E SWSW 819 39.987508 N Lat, 109.453467					UINTAH	COUNTY	, UT
12. CHECK APPI	ROPRIATE BOX(ES) TO I	NDICATE 1	NATURE OF	NOTICE, RE	PORT, OR	OTHER I	DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION			
Notice of Intent	☐ Acidize	□ Deepe	n	□ Producti	on (Start/Res	sume) [☐ Water Shut-Off
	☐ Alter Casing	☐ Fractu	re Treat	☐ Reclama	tion	(☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New (Construction	☐ Recomp	lete		Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug a	nd Abandon	☐ Tempora	rily Abando		Change to Original A PD
	Convert to Injection	🗖 Plug I	ıg Back ☐ Water Di		isposal	•	. ~
determined that the site is ready for five forms of the first section of the case of the first section of the firs	re, L.P. (Kerr-McGee) respections. Respectively: The service of t	se contact ti /ou.	Sts an RECEIV APR 2 0 7. OF OIL, GA	2015		NG. KA GEOL S.S PET	
,			•		E	RECL.	
	Electronic Submission #296 For KERR MCGEE OI mitted to AFMSS for procession	L & GAS ON ng by JOHNI	SHORE L, sen Etta Magee (t to the Verna on 04/03/2015 (15J M 14758	E)	
Name (Printed/Typed) JOEL MAI	EFYT	1	Title REGUL	ATORY ANA	LYST		
Signature (Electronic S	submission)	I	Date 04/01/2	015			
	THIS SPACE FOR	FEDERAL	OR STATE	OFFICE US	E		
Approved By	<u></u>			istant Field s & Mineral	_	s	APR 1 0 201
Conditions of appropriat, if any, are attached ertify that the applicant holds legal or equivalent would entitle the applicant to conduction	itable title to those rights in the sub	warrant or ject lease		ERNAL FI			1
Citle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a crim	e for any pers	on knowingly and	willfully to mak	ke to any depa	rtment or age	ncy of the United

Revisions to Operator-Submitted EC Data for Sundry Notice #296893

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

OTHER NOI

Lease:

UTU01191A

Agreement:

UTU63047A

Operator:

KERR MCGEE OIL & GAS LP

PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000

Admin Contact:

JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM

Ph: 720-929-6828 Fx: 720-929-7828

Tech Contact:

JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM

Ph: 720-929-6828 Fx: 720-929-7828

Location:

State: County:

ÜİNTAH

Field/Pool:

NATURAL BUTTES

Well/Facility:

NBU 922-33M4CS Sec 33 T9S R22E

APDCH NOI

UTU01191A

891008900A (UTU63047A)

KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995

JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com

Ph: 720-929-6828 Fx: 720-929-7828

JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com

Ph: 720-929-6828 Fx: 720-929-7828

UT UINTAH

NATURAL BUTTES

NBU 922-33M4CS Sec 33 T9S R22E SWSW 819FSL 262FWL 39.987508 N Lat, 109.453467 W Lon

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease:

UTU-01191A

Well:

NBU 922-33M4CS

Location:

SWSW Sec 33-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 05/24/2017.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 68242 API Well Number: 43047534130000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A		
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33M4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047534130000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT: 6.5NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: UINTAH
0819 FSL 0262 FWL QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWSW Section:	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Meri	idian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	IT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
12/4/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show	all pertinent details including dates	denths volumes etc
Kerr-McGee Oil & G an extension to this	Gas Onshore, L.P. (Kerr-McG APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	Approved by the
			Date:
			By: Boogysill
NAME (PLEASE PRINT)	PHONE NUME		
Jennifer Thomas	720 929-6808	Regulatory Specialist	
SIGNATURE N/A		DATE 12/4/2015	

Sundry Number: 68242 API Well Number: 43047534130000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534130000

API: 43047534130000 Well Name: NBU 922-33M4CS

Location: 0819 FSL 0262 FWL QTR SWSW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/27/2012

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The state of the s
• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Jennifer Thomas Date: 12/4/2015

Sig

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 75967 API Well Number: 43047534130000

			1
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizor n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33M4CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047534130000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 3779 720 929-6	9. FIELD and POOL or WILDCAT: 458ATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0819 FSL 0262 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Merid	ian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
11/3/2016	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	New construction
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show a sax Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the Union Divide Control of the Control
			Date:
			By: Dally
			33
NAME (PLEASE PRINT)	PHONE NUMBE	ER TITLE	
Candice Barber	435 781-9749	HSE Representative	
SIGNATURE N/A		DATE 11/3/2016	

Sundry Number: 75967 API Well Number: 43047534130000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047534130000

API: 43047534130000 **Well Name:** NBU 922-33M4CS

Location: 0819 FSL 0262 FWL QTR SWSW SEC 33 TWNP 090S RNG 220E MER S

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Date Original Permit Issued: 12/27/2012

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_				
• If locate Yes 🥡		the ownership changed, if so,	, has the surface agre	ement been updated? 🔵
	ny wells been drilled in ments for this location	n the vicinity of the proposed v ? 🔵 Yes 📵 No	well which would affe	ct the spacing or siting
	ere been any unit or oth ed well? 🤵 Yes 🍺	her agreements put in place th No	nat could affect the pe	rmitting or operation of this
	nere been any changes ed location? (Yes	to the access route including No	ownership, or rightof	- way, which could affect the
• Has the	e approved source of w	rater for drilling changed?	Yes 📵 No	
		changes to the surface location at the onsite evaluation?		ich will require a change in
• Is bond	ling still in place, which	n covers this proposed well? (📵 Yes 🔘 No	
Signature: C	Candice Barber	Date: 11/3/2016		

Title: HSE Representative Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Nov. 03, 2016